The Hong Kong University of Science and Technology

Interdisciplinary Programs Office An Example on Student's Pathway << Declaration of BEng major BBA major

CEECON 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		BBA major Student's Pathway											
										Student	s Palliway				
Program:		Dual Degree Program (BEng in Chemical Engineering and BBA in Economics Chemical Engineering C	omics)												
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
BEng in Ch	emical Engi	neering													
Major Require															
	lamental Courses	L		1	1			_	ı			1			I
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4	3		į		į						3	This course will also be used
COMP COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4			!] !							substitute ISOM 2010
ENGG	1010	Academic Orientation Note: CHEM1010 OR CHEM1020	0	0	0	<u>!</u> i		<u>!</u>						0	
CHEM CHEM	1010 1020	General Chemistry IA General Chemistry IB	3	3		i i		i İ						3	
LANG	2030	Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7			3		<u> </u>						3	
MATH	1012	(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4-7			į		į							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	! :] }						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			: 		i i							
MATH MATH	1024 2011	Honors Calculus II Introduction to Multivariable Calculus	3			3		İ						3	
		Note: PHYS 1112 OR PHYS 1312				<u>. </u>		<u> </u>							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3	3		! :		! 						3	
Maior Required C	ourses and Electiv	Required credits for Engineering Fundamental Courses /es	19-23			!		!						21	
CENG	1000	Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering	3	3		İ		j						3	
CENG	1500	A First Course on Materials Science and Applications Note: CENG1600 OR CENG1700 OR BIEN1010	3	3		<u>i </u>		<u>i </u>						3	
CENG CENG	1600	Biotechnology and Its Business Opportunities	3		3	į		į						3	
BIEN	1700 1010	Introduction to Environmental Engineering Introduction to Biomedical Engineering Academic and Brafassianal Davidspannant I	3	1				<u>!</u>						^	
CENG CENG	1010 1980	Academic and Professional Development I Industrial Training	0			0	0	0	0	0				0	
CENG CENG	2110 2210	Process and Product Design Principles Chemical and Biological Engineering Thermodynamics	3			3	3	į						3	
CENG	2220	Process Fluid Mechanics	3				3	1						3	
CENG CENG	2310 3110	Modeling for Chemical and Biological Engineering Process Dynamics and Control	3	1		3	<u> </u>	<u>i </u>	3		<u> </u>		<u> </u>	3	
CENG	3150	Integrated Chemical Process & Product Design	5			<u> </u>			5					5	
CENG CENG	3210 3220	Separation Processes Heat and Mass Transfer	3			<u>!</u>		3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG CENG	3950 4020	Chemical and Environment Engineering Laboratory Academic and Professional Development II	0			 		 			4	0		0	
CENG	4920	Note: CENG4920 OR CENG4930 OR CENG4940 Chemical Engineering Capstone Design	6			İ		į							
CENG CENG	4930 4940	Chemical Engineering Thesis Research Chemical Engineering Industrial Project	6			!		!				3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM CHEM	1050 2111	Laboratory for General Chemistry I Fundamentals of Organic Chemistry	3		1	<u> </u>	3	<u>:</u>						3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1			į	1	Ī						1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering Note: BIEN2410 OR BIEN2610 OR LIFS1901	3			 		i				3		3	
BIEN BIEN	2410 2610	Cellular and Systems Physiology for Engineers Chemical Biology for Engineers	3			!	3	!						3	
LIFS SENG/SSCI/ENVR	1901	General Biology I CENG Elective (12 credits from specified elective list)	3 12			<u>!</u>		3	3	3	3			12	
		uired credits for Major Requirements Courses and Electives	68			:		i						68	
BBA in Eco															
School Requi	2010	Principles of Accounting I	3	1		3								3	
ACCT	2200	Principles of Accounting II	3			† 		<u> </u>	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3	!		! i						3	E00N 0400/0440/0400 :
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3			<u>: </u>		<u>:</u> I						_	ECON 2103/2113/2123 is a maj prerequisite
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			3		į						3	
FINA	2303	Financial Management	3			<u>i </u>	3	<u>i </u>						3	Substituted by COMP
ISOM	2010	Introduction to Information Systems Coding for Business	3			1		<u> </u>						0	1021/1022P/COMP2011
ISOM	2500	Business Statistics	3		3			<u> </u>						3	
ISOM	2600 2700	Introduction to Business Analytics Operations Management	3			1		i		3				3	
MARK	2120	Marketing Management	3			<u> </u>	3	<u>i </u>						3	
MGMT MGMT	2010	Business Ethics and the Individual Organizational Behavior	3			i 		į	2	3				3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	2			<u> </u>		<u>! </u>				2		2	Waived for DDP students
LABU	2040	Business Student induction Business Case Analyses	3							3				3	vvaived for DDP Students
LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3 3-4	<u> </u>		-		i —					3	3	
MATH MATH	1003 1012	Note: MATH 1033 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA	3-4 3 4			į		į							DDP students should take MAT 1012 or MATH 1013 or MATH
		Calculus IB	3 4	(3)		ļ.		ļ						0	1020 or MATH 1023 to satisfy the requirements of both BEng and
MATH MATH	1013 1020	Accelerated Calculus		İ	1	!	-	<u>!</u>						39	BBA degrees
MATH		Honors Calculus I	3	1						ı	<u> </u>	l .	1	JB	İ
MATH MATH	1020 1023		·			<u>!</u>	I		ı						
MATH MATH Major Require Major Required C	1020 1023 ements courses and Electiv	Honors Calculus Required credits for School Requirements res	45-46	1		!	1	•	I		1		1		T
Major Require Major Required C ECON	ements courses and Election	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics	45-46			<u> </u>		4	A					4	
Major Require Major Required C ECON ECON	1020 1023 ements courses and Electiv	Honors Calculus Required credits for School Requirements res	45-46					4	4	4				4 4 4	
MATH MATH Major Require Major Required C ECON ECON ECON ECON	ements courses and Elective 3014 3024	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication	4 4 4 0					4	4	4		0		4 4 0	
MATH MATH Major Required C ECON ECON ECON ECON ECON	ments courses and Election 3014 3024 3334	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	4 4 4 0 11			! !		4	4	4	4	0 4	3	4 4 0 11	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON	1020 1023 Ements Ourses and Elective 3014 3024 3334 4670	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	4 4 4 0 11					4	4	4	4		3	4 4 0	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ments courses and Election 3014 3024 3334 4670 Requirement	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	4 4 4 0 11					4	4	4	4		3	4 4 0 11	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ements courses and Elective 3014 3024 3334 4670 Requirements for Dual Deg	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Is ree Program	4 4 4 4 0 111 S 23									4		4 4 0 11 23	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ements courses and Election 3014 3024 3334 4670 Requirements for Dual Deg	Honors Calculus I Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	4 4 4 0 11	0	0 3		0	0	0	4	4		3	4 4 0 11	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ements courses and Elective 3014 3024 3334 4670 Requirements for Dual Deg 5 1010 3950	Honors Calculus I Required credits for School Requirements //PS Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Technology and Management Professional Activities	4 4 4 4 0 0 111 S 23	0			0					4		4 4 0 11 23	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ments courses and Elective 3014 3024 3334 4670 Requirements for Dual Deg s 1010 3950 DRE	Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives is ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	4 4 4 4 0 11 11 5 23	0			0			0		0		4 4 0 11 23	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	ements courses and Elective 3014 3024 3334 4670 Requirements for Dual Deg 5 1010 3950	Required credits for School Requirements //ES Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives IS ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - Others U CORE - English Language	4 4 4 4 4 0 111 11 3 23	0			0	0			0	4	0	4 4 0 11 23 0 0 3 3 3 3 6	
MATH MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	1020 1023 1023 20 1023 20 1024 3014 3024 3334 4670 20 1010 3950 3950 20 20 20 20 20 20 20 2	Required credits for School Requirements /es Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives is ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	4 4 4 4 4 0 111 11 3 23		3			0	0	0	0	0	0	4 4 0 11 23 0 3 3 3	
MATH MATH Major Required C ECON ECON ECON ECON ECON ECON ECON ECO	1020 1023 1023 20 1023 20 1024 3014 3024 3334 4670 20 1010 3950 3950 20 20 20 20 20 20 20 2	Required credits for School Requirements //ES Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives IS ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - Others U CORE - English Language	4 4 4 4 4 0 111 11 3 23		3	0		0 3 	0 O	0	0	0	0	4 4 0 11 23 0 0 3 3 3 3 6	
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[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

^ Courses offered in summer term

 $\ensuremath{^{\#\#}}$ To graduate, students should complete all requirements as specified for DDP.

^{*} Courses offered in winter term

⁻⁻⁻ denotes the course/requirement is either waived or substituted

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.